

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 - 5 (cancelled).

6. (original) A vehicle door jamb modular contact switch for transmitting electrical current through a vehicle door jamb assembly including a door jamb of a movable door and fixed door post, comprising:

an active contact assembly comprising a plurality of active contact modules, each active contact module having a biased contact active contact and a housing having one or more coupling surfaces, wherein two or more active contact modules are coupled via their coupling surfaces, the active contact assembly adapted to be mounted to the door jamb of a movable door;

a passive contact assembly comprising a plurality of passive contact modules, each passive contact module having a passive contact and a housing having one or more coupling surfaces, wherein two or more active contact modules are coupled via their coupling surfaces, the passive contact assembly adapted to be mounted within the fixed-door post, the movable door and the fixed-door post in cooperating relationship wherein the biased contact active contacts of the plurality of active contact modules are in cooperative engagement with the passive contacts of the plurality of passive contact modules and operative to mate therewith to form a closed circuit when the vehicle door assumes a closed position.

7. (original) The modular contact switch of claim 6, wherein the active and passive contact module coupling surfaces comprises one or more tabs and corresponding notches.

8. (previously presented) The modular contact switch of claim 6, wherein the active and passive contact module coupling surfaces comprise one or more protruding male components and/or one or more interlocking female depressions adapted for cooperative engagement with one or more protruding male components.

9. (original) The modular contact switch of claim 6, wherein the plurality of active and passive contact modules comprise a first end contact module, a second end contact module, and a center contact module,

the first end contact module comprising a housing having a first coupling surface comprising a protruding male component;

the second end contact module comprising a housing having a second surface comprising a grooved female component,

and the center contact module comprising a housing having a first coupling surface comprising a protruding male component, and a second surface opposite the first surface comprising a grooved female component, the protruding male component and the grooved female component adapted to slidably couple.

10. (original) The modular contact switch of claim 9, wherein the protruding male component is a tongue running longitudinal to the coupling side, wherein the grooved female component is a groove running longitudinal to the coupling side.

11. (currently amended) The modular contact switch of claim 9, wherein the active and passive contact module coupling surfaces comprise one or more protruding male components and/or one or more interlocking female depressions adapted for cooperative engagement with one or more protruding male components.

12. (previously presented) The modular contact switch of claim 10, wherein the at least one protruding male component and at least one complementary female component further comprise at least one fixation feature adapted to removably fix the engagement between the protruding male component and the complementary female component in substantial alignment therewith.

13. (currently amended) The modular contact switch of claim 12, wherein the at least one protruding male component further comprises at least one detent ridge and/or detent trough and the female component further comprises at least one complementary detent trough and/or detent ridge, wherein the detent ridge and complementary detent trough are adapted to removably fix the engagement between the protruding male component and the complementary female component in substantial alignment therewith.

14. (previously presented) The modular contact switch of claim 11, wherein the at least one protruding male component and at least one complementary female component further comprise at least one fixation feature adapted to removably fix the engagement between the

protruding male component and the complementary female component in substantial alignment therewith.

15. (currently amended) The modular contact switch of claim 14, wherein the at least one protruding male component further comprises at least one detent ridge and/or detent trough and the female component further comprises at least one complimentary detent trough and/or detent ridge, wherein the detent ridge and complementary detent trough are adapted to removably fix the engagement between the protruding male component and the complementary female component in substantial alignment therewith.

Claims 16 – 18 (cancelled).

19. (currently amended) ~~The modular contact switch of claim 16~~ A modular electrical contact switch, comprising:

an active contact assembly comprising a first end active contact module and a second end active contact module, the first and second end active contact modules having a top side, a bottom side, a first side, a second side, a front side and a back side, the first and second end active contact modules having a spring-biased contact extending from the front side, the first end active contact module first side having a first coupling surface, the second end active contact module second side having a second coupling surface, the first and second end coupling surfaces comprise coupling features for removable coupling therebetween; and

a passive contact assembly comprising a first end passive contact module and a second end passive contact module, the first and second end passive contact modules having a top side, a bottom side, a first side, a second side, a front side and a back side, the first and second end passive contact modules having a passive contact adjacent the front side, the first end passive contact module first side having a first coupling surface, the second end passive contact module second side having a second coupling surface, the first and second end coupling surfaces comprise coupling features for removable coupling therebetween,

wherein contact between each active contact and passive contact closes an electrical circuit,

wherein the first end active contact module comprises a first side having coupling features comprising at least one protruding male component adjacent the top side and at least one complimentary female component adjacent the bottom side, and wherein the first end passive contact module comprises a first side having coupling features comprising at least one

protruding male component adjacent the top side and at least one complimentary female component adjacent the bottom side.

20. (previously presented) The modular contact switch of claim 19, wherein the at least one protruding male component and at least one complimentary female component further comprise at least one fixation feature adapted to removably fix the engagement between the protruding male component and the complementary female component in substantial alignment therewith.

21. (currently amended) The modular contact switch of claim 19, wherein the at least one protruding male component further comprises at least one detent ridge and/or detent trough and the female component further comprises at least one complimentary detent trough and/or detent ridge, wherein the detent ridge and complementary detent trough are adapted to removably fix the engagement between the protruding male component and the complementary female component in substantial alignment therewith.

22. (cancelled)

23. (currently amended) ~~The modular contact switch of claim 22~~ A modular electrical contact switch, comprising:

an active contact assembly comprising a first end active contact module and a second end active contact module, the first and second end active contact modules having a top side, a bottom side, a first side, a second side, a front side and a back side, the first and second end active contact modules having a spring-biased contact extending from the front side, the first end active contact module first side having a first coupling surface, the second end active contact module second side having a second coupling surface, the first and second end coupling surfaces comprise coupling features for removable coupling therebetween; and

a passive contact assembly comprising a first end passive contact module and a second end passive contact module, the first and second end passive contact modules having a top side, a bottom side, a first side, a second side, a front side and a back side, the first and second end passive contact modules having a passive contact adjacent the front side, the first end passive contact module first side having a first coupling surface, the second end passive contact module second side having a second coupling surface, the first and second end coupling surfaces comprise coupling features for removable coupling therebetween,

wherein contact between each active contact and passive contact closes an electrical circuit,

further comprising one or more center active contact modules having a top side, a bottom side, a first side, a second side, a front side and a back side, the center active contact module having a spring-biased contact extending from the front side, the center active contact module first side having coupling features comprising at least one protruding male component adjacent the top side and at least one complimentary female component adjacent the bottom side, the second side having coupling features comprising at least one female component adjacent the top side and at least one complimentary protruding male component adjacent the bottom side; and

further comprising one or more center passive contact modules having a top side, a bottom side, a first side, a second side, a front side and a back side, the center passive contact module having a spring-biased contact extending from the front side, the center passive contact module first side having coupling features comprising at least one protruding male component adjacent the top side and at least one complimentary female component adjacent the bottom side, the second side having coupling features comprising a female component adjacent the top side and at least one complimentary protruding male component adjacent the bottom side,

wherein the at least one protruding male component and at least one complimentary female component further comprise at least one fixation feature adapted to removably fix the engagement between the protruding male component and the complementary female component in substantial alignment therewith.

24. (currently amended) ~~The modular contact switch of claim 22~~ A modular electrical contact switch, comprising:

an active contact assembly comprising a first end active contact module and a second end active contact module, the first and second end active contact modules having a top side, a bottom side, a first side, a second side, a front side and a back side, the first and second end active contact modules having a spring-biased contact extending from the front side, the first end active contact module first side having a first coupling surface, the second end active contact module second side having a second coupling surface, the first and second end coupling surfaces comprise coupling features for removable coupling therebetween; and

a passive contact assembly comprising a first end passive contact module and a second end passive contact module, the first and second end passive contact modules having a top side, a bottom side, a first side, a second side, a front side and a back side, the first and second

end passive contact modules having a passive contact adjacent the front side, the first end passive contact module first side having a first coupling surface, the second end passive contact module second side having a second coupling surface, the first and second end coupling surfaces comprise coupling features for removable coupling therebetween,

wherein contact between each active contact and passive contact closes an electrical circuit,

further comprising one or more center active contact modules having a top side, a bottom side, a first side, a second side, a front side and a back side, the center active contact module having a spring-biased contact extending from the front side, the center active contact module first side having coupling features comprising at least one protruding male component adjacent the top side and at least one complimentary female component adjacent the bottom side, the second side having coupling features comprising at least one female component adjacent the top side and at least one complimentary protruding male component adjacent the bottom side; and

further comprising one or more center passive contact modules having a top side, a bottom side, a first side, a second side, a front side and a back side, the center passive contact module having a spring-biased contact extending from the front side, the center passive contact module first side having coupling features comprising at least one protruding male component adjacent the top side and at least one complimentary female component adjacent the bottom side, the second side having coupling features comprising a female component adjacent the top side and at least one complimentary protruding male component adjacent the bottom side,

wherein the at least one protruding male component further comprises at least one detent ridge and/or detent trough and the female female component further comprises at least one complimentary detent trough and/or detent ridge, wherein the detent ridge and complementary detent trough are adapted to removably fix the engagement between the protruding male component and the complementary female component in substantial alignment therewith.

25. (new) The modular contact switch of claim 6, wherein the active and passive contact module coupling surfaces comprise one or more interlocking female depressions adapted for cooperative engagement with one or more protruding male components.

26. (new) The modular contact switch of claim 6, wherein the active and passive contact module coupling surfaces comprise one or more protruding male components adapted for cooperative engagement with one or more interlocking female depressions.

27. (new) The modular contact switch of claim 9, wherein the active and passive contact module coupling surfaces comprise one or more interlocking female depressions adapted for cooperative engagement with one or more protruding male components.

28. (new) The modular contact switch of claim 9, wherein the active and passive contact module coupling surfaces comprise one or more protruding male components adapted for cooperative engagement with one or more interlocking female depressions.

29. (new) The modular contact switch of claim 12, wherein the at least one protruding male component further comprises at least one detent ridge and the female component further comprises at least one complimentary detent trough, wherein the detent ridge and complementary detent trough are adapted to removably fix the engagement between the protruding male component and the complementary female component in substantial alignment therewith.

30. (new) The modular contact switch of claim 12, wherein the at least one protruding male component further comprises at least one detent trough and the female component further comprises at least one complimentary detent ridge, wherein the detent ridge and complementary detent trough are adapted to removably fix the engagement between the protruding male component and the complementary female component in substantial alignment therewith.

31. (new) The modular contact switch of claim 14, wherein the at least one protruding male component further comprises at least one detent ridge and the female component further comprises at least one complimentary detent trough, wherein the detent ridge and complementary detent trough are adapted to removably fix the engagement between the protruding male component and the complementary female component in substantial alignment therewith.

32. (new) The modular contact switch of claim 14, wherein the at least one protruding male component further comprises at least one detent trough and the female component further comprises at least one complimentary detent ridge, wherein the detent ridge and complementary detent trough are adapted to removably fix the engagement between the protruding male component and the complementary female component in substantial alignment therewith.

33. (new) The modular contact switch of claim 19, wherein the at least one protruding male component further comprises at least one detent ridge and the female component further comprises at least one complimentary detent trough, wherein the detent ridge and complementary detent trough are adapted to removably fix the engagement between the protruding male component and the complementary female component in substantial alignment therewith.

34. (new) The modular contact switch of claim 19, wherein the at least one protruding male component further comprises at least one detent trough and the female component further comprises at least one complimentary detent ridge, wherein the detent ridge and complementary detent trough are adapted to removably fix the engagement between the protruding male component and the complementary female component in substantial alignment therewith.

35. (new) A modular electrical contact switch, comprising:
an active contact assembly comprising a first end active contact module and a second end active contact module, the first and second end active contact modules having a top side, a bottom side, a first side, a second side, a front side and a back side, the first and second end active contact modules having a spring-biased contact extending from the front side, the first end active contact module first side having a first coupling surface, the second end active contact module second side having a second coupling surface, the first and second end coupling surfaces comprise coupling features for removable coupling therebetween; and
a passive contact assembly comprising a first end passive contact module and a second end passive contact module, the first and second end passive contact modules having a top side, a bottom side, a first side, a second side, a front side and a back side, the first and second end passive contact modules having a passive contact adjacent the front side, the first end passive contact module first side having a first coupling surface, the second end passive contact

module second side having a second coupling surface, the first and second end coupling surfaces comprise coupling features for removable coupling therebetween,

wherein contact between each active contact and passive contact closes an electrical circuit,

further comprising one or more center active contact modules having a top side, a bottom side, a first side, a second side, a front side and a back side, the center active contact module having a spring-biased contact extending from the front side, the center active contact module first side having coupling features comprising at least one protruding male component adjacent the top side and at least one complimentary female component adjacent the bottom side, the second side having coupling features comprising at least one female component adjacent the top side and at least one complimentary protruding male component adjacent the bottom side; and

further comprising one or more center passive contact modules having a top side, a bottom side, a first side, a second side, a front side and a back side, the center passive contact module having a spring-biased contact extending from the front side, the center passive contact module first side having coupling features comprising at least one protruding male component adjacent the top side and at least one complimentary female component adjacent the bottom side, the second side having coupling features comprising a female component adjacent the top side and at least one complimentary protruding male component adjacent the bottom side,

wherein the at least one protruding male component further comprises at least one detent ridge and the female component further comprises at least one complimentary detent ridge, wherein the detent ridge and complementary detent trough are adapted to removably fix the engagement between the protruding male component and the complementary female component in substantial alignment therewith.

36. (new) A modular electrical contact switch, comprising:

an active contact assembly comprising a first end active contact module and a second end active contact module, the first and second end active contact modules having a top side, a bottom side, a first side, a second side, a front side and a back side, the first and second end active contact modules having a spring-biased contact extending from the front side, the first end active contact module first side having a first coupling surface, the second end active contact module second side having a second coupling surface, the first and second end coupling surfaces comprise coupling features for removable coupling therebetween; and

a passive contact assembly comprising a first end passive contact module and a second end passive contact module, the first and second end passive contact modules having a top side, a bottom side, a first side, a second side, a front side and a back side, the first and second end passive contact modules having a passive contact adjacent the front side, the first end passive contact module first side having a first coupling surface, the second end passive contact module second side having a second coupling surface, the first and second end coupling surfaces comprise coupling features for removable coupling therebetween,

wherein contact between each active contact and passive contact closes an electrical circuit,

further comprising one or more center active contact modules having a top side, a bottom side, a first side, a second side, a front side and a back side, the center active contact module having a spring-biased contact extending from the front side, the center active contact module first side having coupling features comprising at least one protruding male component adjacent the top side and at least one complimentary female component adjacent the bottom side, the second side having coupling features comprising at least one female component adjacent the top side and at least one complimentary protruding male component adjacent the bottom side; and

further comprising one or more center passive contact modules having a top side, a bottom side, a first side, a second side, a front side and a back side, the center passive contact module having a spring-biased contact extending from the front side, the center passive contact module first side having coupling features comprising at least one protruding male component adjacent the top side and at least one complimentary female component adjacent the bottom side, the second side having coupling features comprising a female component adjacent the top side and at least one complimentary protruding male component adjacent the bottom side,

wherein the at least one protruding male component further comprises at least one detent trough and the female component further comprises at least one complimentary detent ridge, wherein the detent ridge and complementary detent trough are adapted to removably fix the engagement between the protruding male component and the complementary female component in substantial alignment therewith.